



BRIEFING TO THE NORTHEAST REGION ENVIRONMENTAL LAW WORKSHOP

NORTHEAST REGION ENVIRONMENT BRANCH



OUTLINE

- **NORTHEAST REGION ENVIRONMENT BRANCH**
 - **MISSION**
 - **ROLES**
 - **ISSUES**
- **ENVIRONMENTAL MANAGEMENT SYSTEMS (EMS)**
 - **WHY DO IT?**
 - **WHAT IS IT?**
 - **WHAT IS THE ISO 14001 STANDARD?**
 - **HOW WILL THE ARMY USE ISO 14001?**
 - **WHAT IS THE NEXT STEP IN THE PROCESS?**
 - **WHAT DOES IT MEAN TO YOU?**



ENVIRONMENTAL MANAGEMENT SYSTEMS (EMS)

- Why do this?
- What is an EMS?
- What is the ISO 14001 EMS standard?
- How will ISO 14001 be integrated in the Army?
- What does this mean to you?
- What's the next step in this process?

Mr. Arba

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09/04/16 20:00



NORTHEAST REGION ENVIRONMENT BRANCH

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IMA MISSION

PROVIDE EQUITABLE, EFFICIENT AND EFFECTIVE MANAGEMENT OF ARMY INSTALLATIONS WORLDWIDE TO:

- SUPPORT MISSION READINESS AND EXECUTION**
- ENABLE WELL-BEING OF SOLDIERS, CIVILIANS AND FAMILY MEMBERS**
- IMPROVE INFRASTRUCTURE AND PRESERVE THE ENVIRONMENT**



NORTHEAST REGION ENVIRONMENT ROLE

- STANDARDIZED INSTALLATION ENVIRONMENTAL SUPPORT
- 26 INSTALLATIONS – BLEND OF INDUSTRIAL, TRAINING, FORCE PROJECTION, R & D, AND ADMINISTRATIVE
- RANGE IN SIZE FROM 107K ACRES (FT DRUM) TO 89 ACRES (FT MCNAIR)
- ENVIRONMENTAL ISSUES MUCH MORE COMPLICATED AND DIVERSE THAN TRADOC ALONE

ENVIRONMENTAL ISSUES NE



- **FORMAL CONSULTATION WITH FISH AND WILDLIFE SERVICE AT ABERDEEN PROVING GROUNDS**
 - **INCREASED MORTALITY OF BALD EAGLES VIOLATION OF ENDANGERED SPECIES ACT**
 - **FUNDING (92K) TO MARK POWER LINES WITH ORANGE BALLS TO PRECLUDE LINE STRIKES**
 - **APG IS INITIATING A BIOLOGICAL ASSESSMENT (BA) TO SATISFY REQUIREMENT BY THE US FISH AND WILDLIFE SERVICE TO ENTER FORMAL CONSULTATION . BA WILL CONSIDER ENVIRONMENTAL FACTORS AS POTENTIAL TRAINING IMPACTS. EXPECTED COMPLETION SPRING-SUMMER 04.**
- **NATIONAL ENVIRONMENTAL POLICY ACT (NEPA) MANAGEMENT**
 - **MAJOR ACTIONS WITHIN NERO:**
 - FORT BELVOIR INSTALLATION MASTER PLAN**
 - ABERDEEN PROVING GROUND INSTALLATION MASTER PLAN EIS**
 - FORT DETRICK INTEGRATED RESEARCH FACILITY EIS (NIH IS PROPONENT)**
 - RCI INITIATIVE (FORTS EUSTIS/STORY, BELVOIR, DETRICK, WALTER REED, HAMILTON, DRUM, PICATINNY ARSENAL/MONMOUTH/CARLISLE BARRACKS**
 - **IMA IS COMMITTED TO SUPPORTING MASTER PLANNING AND ASSOCIATED NEPA ANALYSIS**

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ENVIRONMENTAL ISSUES NE



- **REGIONAL ENVIRONMENTAL SUPPORT CONTRACT**
 - WORKING WITH ARMY CONTRACTOR AGENCY (ACA)
 - REVIEWING ABERDEEN PROVING GROUND'S ENVIRONMENTAL SUPPORT CONTRACT TO EXPAND IMA-WIDE.
- **RCI AND HISTORIC HOUSING**
 - MOST NE INSTALLATIONS HAVE SOME HISTORIC HOUSING
 - USUALLY A PROGRAMMATIC AGREEMENT IS NEEDED
 - COORDINATION AMONG NERO, INSTALLATION CULTURAL RESOURCES MANAGER, RCI TEAM, AND THE STATE HISTORIC PRESERVATION OFFICER IS A REQUIREMENT.

ENVIRONMENTAL ISSUES NE



- **COMPLIANCE WITH THE CLEAN AIR ACT**

- MAJOR CHANGES IN AIR NON-ATTAINMENT STATUS FROM MODERATE TO SEVERE FOR OZONE WILL AFFECT NERO INSTALLATIONS
- INSTALLATIONS OF MOST CONCERN
 - FORTS BELVIER
 - FORT MONMOUTH
- BOTH INSTALLATIONS ARE TRYING TO ADD SOURCES WHICH ARE MAJOR EMITTERS OF NOX ($\text{NOX} + \text{VOC} = \text{OZONE}$) AND BOTH ARE VERY CLOSE TO THEIR 25 TONS PER YEAR TRIGGER
- INSTALLATIONS MAY HAVE TO PURCHASE AIR EMISSION CREDITS TO STAY IN COMPLIANCE
- NO MECHANISM IN PLACE TO PURCHASE AIR CREDITS
- WORST CASE IS MISSION IMPACT WHILE RE-NEGOTIATING PERMIT CONDITIONS WITH REGULATORS

ENVIRONMENTAL ISSUES NE



- **WATER SYSTEM VULNERABILITY ASSESSMENTS**

- FORT GEORGE MEADE WATER SYSTEM MUST MEET 31 DEC 03 DEADLINE FOR SUBMISSION TO EPA.
DOCUMENT IS IN FINAL DRAFT
AWAITING SUBMISSION GUIDANCE FROM HQ, IMA.
- 14 WATER SYSTEMS WHICH MUST MEET THE 30 JUN 04 DEADLINE FOR SUBMISSION.
- 13 WATER SYSTEMS WHICH MUST MEET THE DOD REQUIREMENT FOR ASSESSMENTS.
FUNDING HAS BEEN PROGRAMMED FOR 9
REMAINING 4 WILL BE PROGRAMMED IN THE NEXT BUDGET

ENVIRONMENTAL ISSUES NE



• ENFORCEMENT ACTIONS

FY02

- Total Open - 12
 - Open 1 year or > - 8
 - Open <1 year - 4
- Total New - 19
 - Resolved <60 days -14
 - Resolved >60 days - 1
- Breakout Regulatory
 - RCRA - 4
 - Water - 10
 - Air - 5

FY03

- Total Open - 18
 - Target - 10
 - Open 1 year or > - 12
 - Open <1 year - 6
- Total New - 15
- Target - 15
 - Resolved <60 days - 7
 - Resolved >60 days - 2
- Breakout Regulatory
 - RCRA - 1
 - Water - 11
 - Air - 5
 - More than 1 media - 1



OTHER ITEMS OF INTEREST

- ENVIRONMENTAL MANAGEMENT SYSTEM (EMS)
- FY04 ENVIRONMENTAL PERFORMANCE ASSESSMENTS (EPAS)
 - 6 ASSESSMENTS SCHEDULED FOR FY04
 - FORTS DRUM, DEVENS, AND BELVOIR
 - WALTER REED AMC
 - WEST POINT
 - ABERDEEN PROVING GROUND
- SPECIAL INSTALLATIONS
 - GOCOs
 - AWCF
 - UNIQUE MISSION/STATUS



WHY ARE WE DOING THIS?



EMS IS REQUIRED

- Executive Order 13148, “Greening the Government through Leadership in Environmental Management”
 - Requires all Federal agencies to implement an EMS
 - Deadline: Dec 2005



ECOLOGY DEMANDS IT!

Figure 1: Living Planet Index, 1970-1999

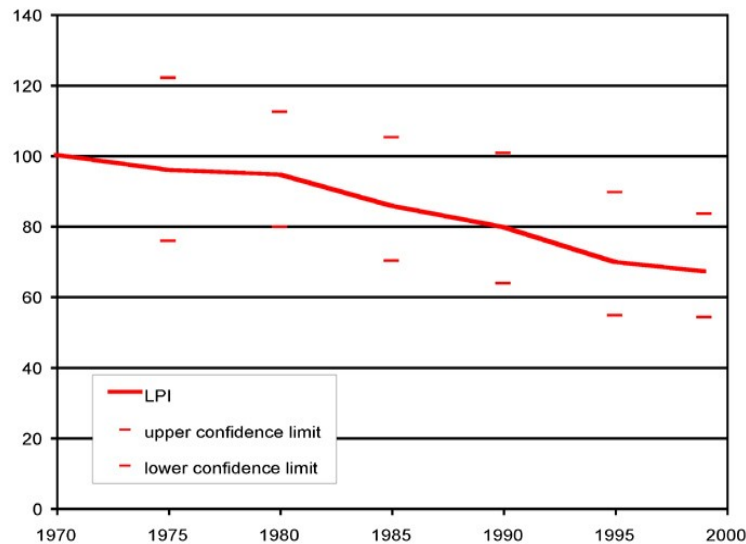
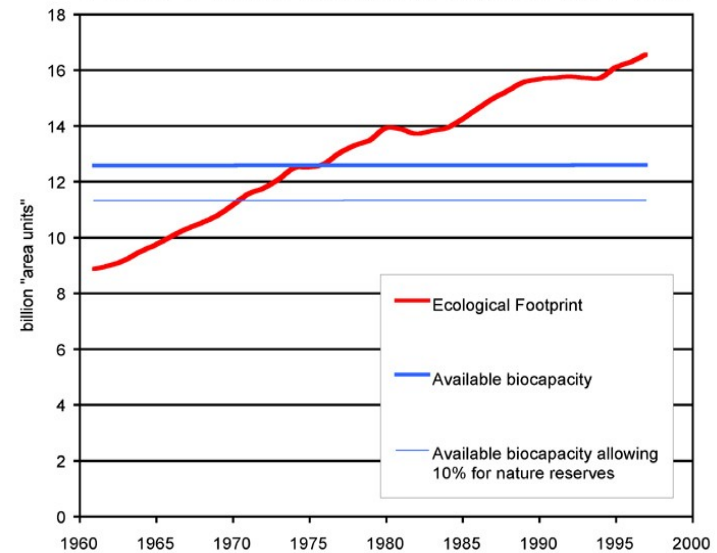


Figure 2: World Ecological Footprint, 1961-1997



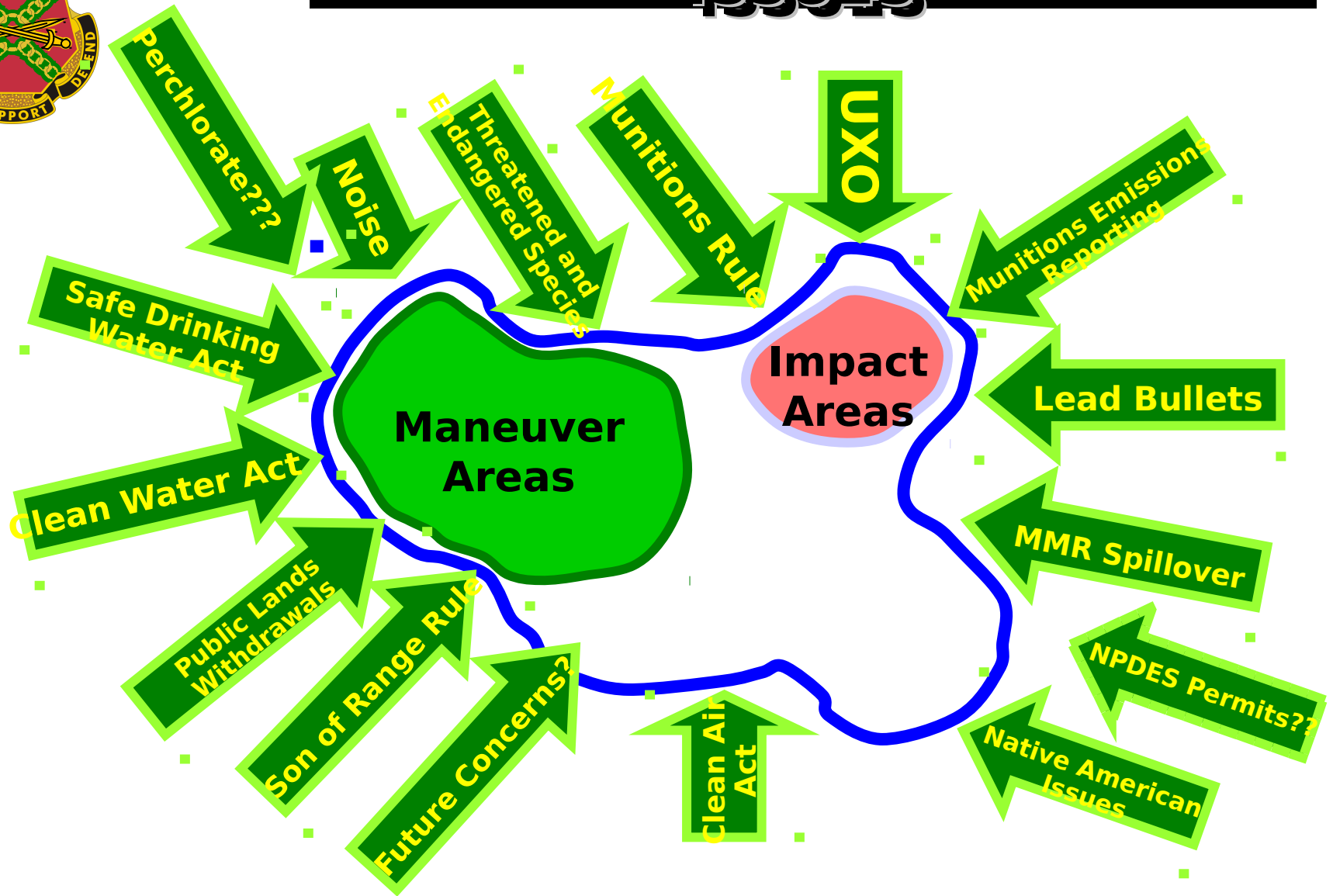
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ARMY ENCROACHMENT ISSUES



URBAN GROWTH/SPRAWL



***Fort Lewis,
Washington***

***Fort Bragg, North
Carolina***

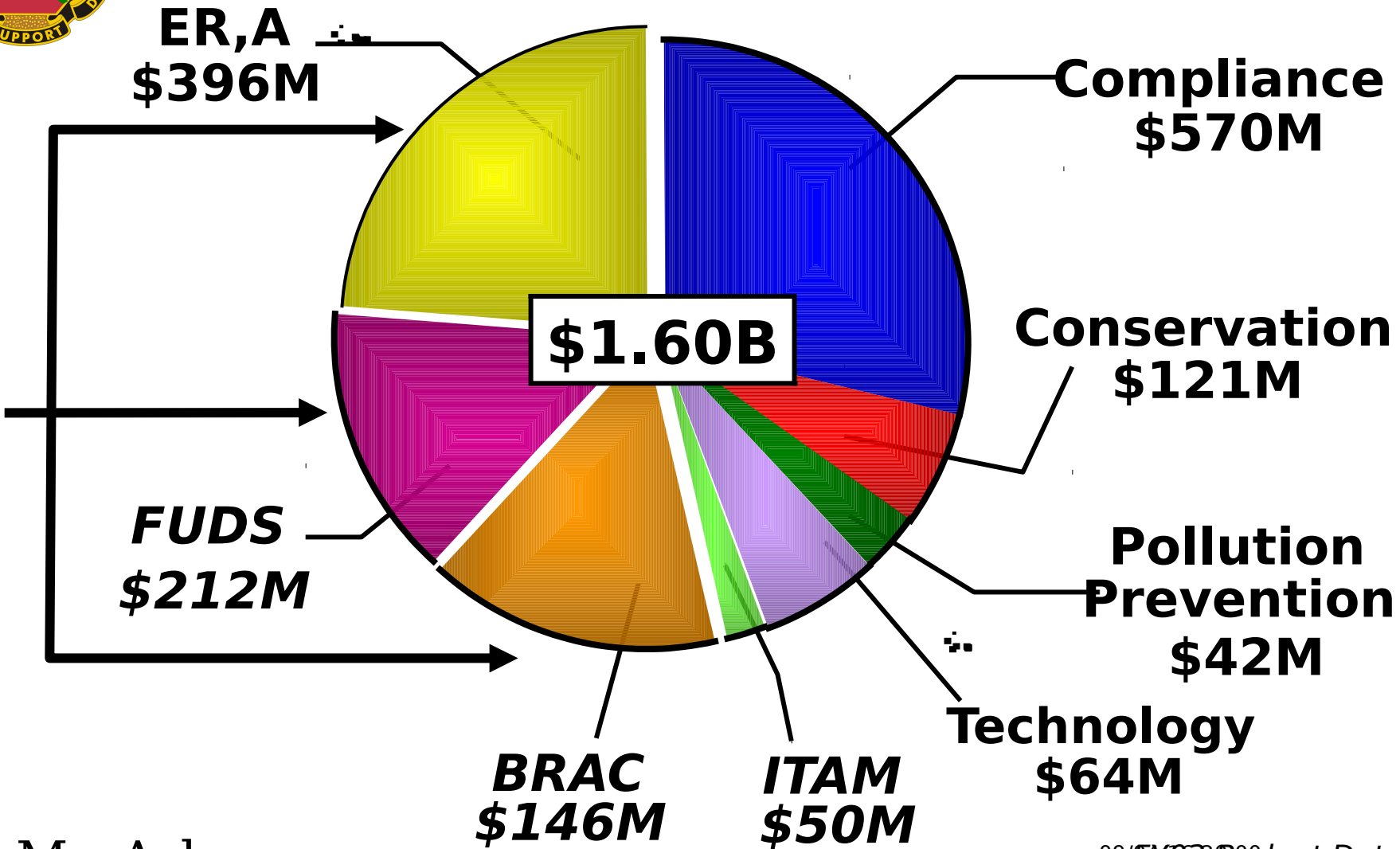


Puget Sound area by LandSat, 1996



Managing the Army's Env't

Cleaning up past sins



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09/04/03 Budget Data

ARMY EMS POLICY



- Action memorandum signed by Mr. Ray Fatz, Deputy Assistant Secretary of the Army (Environment, Safety, and Occupational Health)
- The Army must continue to demonstrate excellence in environmental performance.
- Adopt the ISO 14001 EMS standard.
- The EMS will be mission-focused.



INTENT OF EMS POLICY

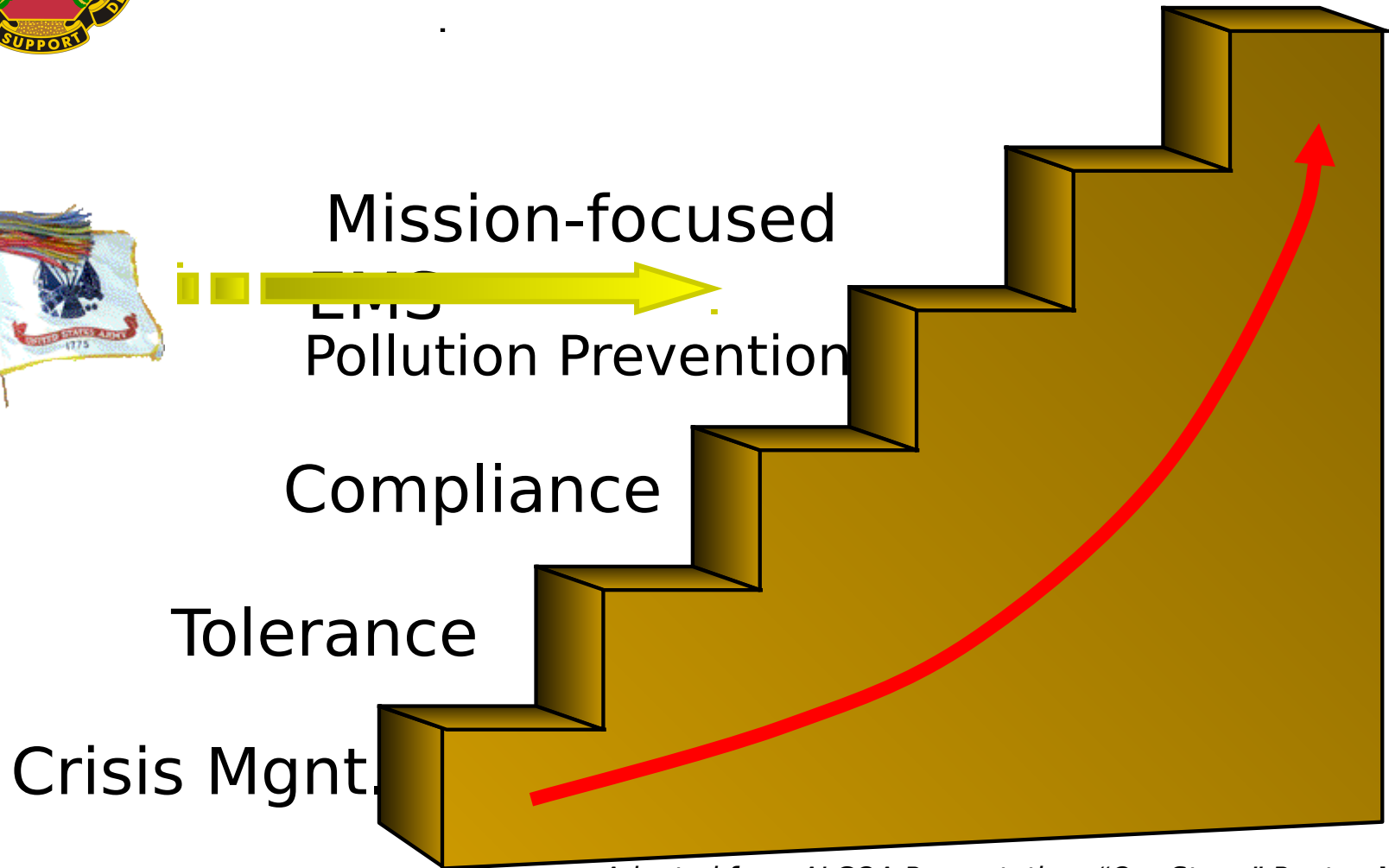
- **INTEGRATE ENVIRONMENTAL CONSIDERATIONS INTO ALL ARMY BUSINESS**
- **BREAK THE COMPLIANCE LEGACY**
 - **ENVIRONMENTAL STOVEPIPE**
 - **ENVIRONMENTAL IMPEDES TRAINING**
- **DEVELOP AN INTERIM ENVIRONMENTAL PARADIGM**
 - **MISSION-FOCUSED EMS**
 - **ADDRESS ENVIRONMENTAL IMPACTS VERSUS REGULATORY REQUIREMENTS**
- **ACHIEVE AN OBJECTIVE ENVIRONMENTAL PARADIGM**
 - **“E” WORD BECOMES INVISIBLE**
 - **INTEGRATED IN ALL ARMY OPERATIONS**



WHAT IS AN EMS?



EVOLUTION OF ENVIRONMENTAL MANAGEMENT



Adapted from ALCOA Presentation, "Our Story," Pentagon, March 20

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WHAT IS AN EMS

- **DEFINITION: THE PART OF THE OVERALL MANAGEMENT SYSTEM THAT INCLUDES ORGANIZATIONAL STRUCTURE, PLANNING ACTIVITIES, RESPONSIBILITIES, PRACTICES, PROCEDURES, PROCESSES AND RESOURCES FOR DEVELOPING, IMPLEMENTING, ACHIEVING AND REVIEWING THE ENVIRONMENTAL POLICY - ISO 14001.**
- **A SYSTEMATIC APPROACH TO MANAGING ENVIRONMENTAL ASPECTS**
- **MANAGEMENT TOOL TO ACHIEVE GOALS AND OBJECTIVES**
- **THE ISO 14001 STANDARD IS ONE APPROACH**
- **THE ARMY ALREADY HAS MANY ELEMENTS OF AN EMS**



WHAT IT IS NOT!

- **IT IS NOT A SILVER BULLET - WON'T FIX EVERYTHING**
- **IT IS NOT AN ENVIRONMENTAL COMPLIANCE PROGRAM**
- **IT IS NOT JUST FOR THE ENVIRONMENTAL STAFF**
- **IT IS NOT SIMPLY A PROJECT MANAGEMENT PLAN**



WHAT IS ISO 14001?



WHAT IS ISO 14001?

- AN INTERNATIONAL STANDARD OF BEST MANAGEMENT PRACTICES FOR EMS.
- ISO MEANS “EQUAL” AND REFERS TO THE INTERNATIONAL ORGANIZATION FOR STANDARDIZATION.
- IS SIMILAR TO ISO 9001 QUALITY MANAGEMENT SYSTEM.
- ISO 14001 \neq EMS
- ISO 14001 IS A STANDARD THAT WILL HELP YOU BUILD OR IMPROVE YOUR EMS.

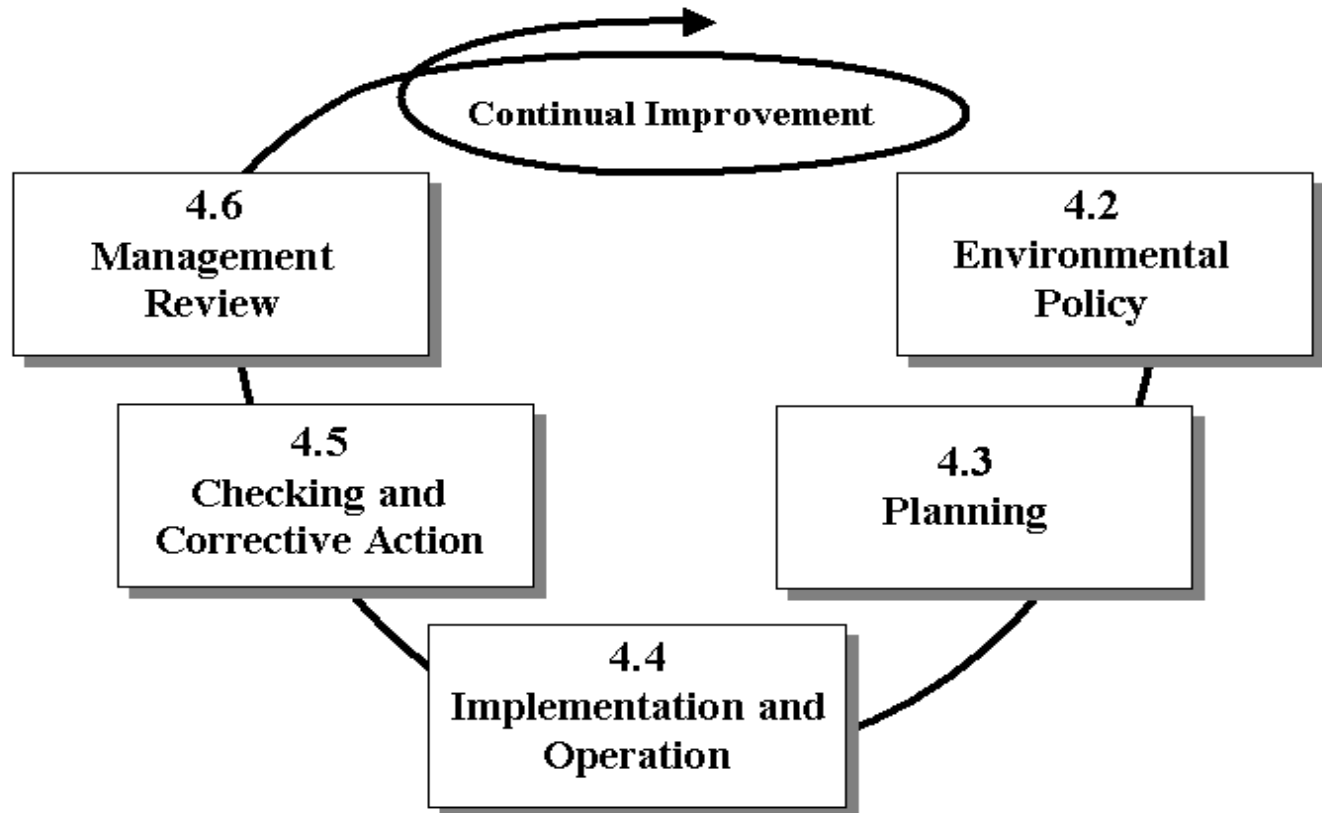


WHY ADOPT ISO 14001?

- **GLOBAL STANDARD FOR ARMY'S GLOBAL MISSION**
- **IT IS A REGIMENTED PROCESS**
- **STANDARDIZED APPROACH IS CHEAPER AND FASTER TO IMPLEMENT**
- **COMMON STRUCTURE AIDS INTEROPERABILITY ACROSS THE ARMY, DOD, COALITION PARTNERS, AND INDUSTRY**
- **MOVES ARMY TO INDUSTRY BEST PRACTICES**



THE EMS MODEL FOR ISO 14001





4.2 ENVIRONMENTAL POLICY

- **TOP MANAGEMENT WILL DEFINE THE POLICY**
- **APPROPRIATE TO THE NATURE AND SCALE**
- **COMMITMENT TO**
 - **CONTINUAL IMPROVEMENT**
 - **PREVENTION OF POLLUTION**
 - **COMPLIANCE**
- **FRAMEWORK FOR ENVIRONMENTAL OBJECTIVES AND TARGETS**
- **DOCUMENTED: ... TO EMPLOYEES AND THE PUBLIC**



4.3 PLANNING

- IDENTIFY ENVIRONMENTAL ASPECTS AND IMPACTS
 - **ASPECT:** AN ELEMENT OF AN ORGANIZATION'S ACTIVITIES, PRODUCTS, OR SERVICES THAT CAN INTERACT WITH THE ENVIRONMENT.
 - **IMPACT:** ANY CHANGE TO THE ENVIRONMENT, WHETHER ADVERSE OR BENEFICIAL, WHOLLY OR PARTIALLY RESULTING FROM AN ORGANIZATION'S ACTIVITIES, PRODUCTS, OR SERVICES.
- DETERMINE "SIGNIFICANT" ASPECTS/IMPACTS.
- IDENTIFY LEGAL AND OTHER REQUIREMENTS.
- SET OBJECTIVES AND TARGETS.
- ESTABLISH A PROGRAM TO REACH OBJECTIVES AND TARGETS.



EXAMPLES OF ASPECTS/IMPACTS

ASPECTS

IMPACTS

- VEHICLES EMIT EXHAUST
 - TANK MANEUVERS
 - AN ASPECT/IMPACT IS **SIGNIFICANT** IF:
 - TRAINING IS CONSTRAINED
 - THE ENVIRONMENTAL IS DEGRADED PAST RECOVERY
 - THE COMMUNITY IS CONCERNED
 - MANAGEMENT TAKES HIGH RESOURCES
- SULFUR OXIDES RELEASED
 - EROSION, WATER
- CONTAMINATION,
- HABITAT DESTRUCTION,
- AIR POLLUTION



OBJECTIVES AND TARGETS

- AN EMS OBJECTIVE – WHAT YOU INTEND TO DO.
- AN EMS TRAGET – HOW MUCH AND BY WHEN
- EXAMPLES
 - **OBJECTIVE:** REDUCE ENERGY CONSUMPTION
 - **TARGET:** REDUCE ENERGY CONSUMPTION BY 25% BY THE YEAR 2005 FROM A YEAR 2000 BASELINE



4.4 IMPLEMENTATION AND OPERATION

- **STRUCTURE AND RESPONSIBILITY**
- **TRAINING, AWARENESS AND COMPETENCE**
- **COMMUNICATION**
- **ENVIRONMENTAL MANAGEMENT SYSTEM DOCUMENTATION**
- **DOCUMENT CONTROL**
- **OPERATIONAL CONTROL**
- **EMERGENCY PREPAREDNESS AND RESPONSE**



EMS ROLES AND RESPONSIBILITIES

- **EMS LEAD**
- **EMS TEAM**
- **GARRISON
COMMANDER**
- **UNIT COMMANDERS**
- **PERSONNEL
SPECIALISTS**
- **INFORMATION
MANAGEMENT STAFF**
- **FUNCTIONAL EXPERTS**
 - **ENGINEERS**
 - **CONTRACTING
OFFICIALS**
 - **PURCHASING
OFFICIALS**
 - **ENERGY MANAGERS**
- **TECHNICAL EXPERTS**
 - **NEPA**
- **CONTRACTORS**



EMS MGMT REPRESENTATIVE

- **KEY PERSON**
- **EMS ZEALOT**
- **MUST GAIN CONFIDENCE OF COMMANDERS, STAFF, AND TENANTS**
- **DUTIES:**
 - **ENSURE EMS IS IMPLEMENTED AND MAINTAINED**
 - **REPORTS TO TOP MANAGEMENT REGARDING EMS STATUS**



4.5 CHECKING AND CORRECTIVE ACTION

- **MONITORING AND MEASUREMENT**
- **NONCONFORMANCE AND CORRECTIVE AND PREVENTIVE ACTION**
- **RECORDS**
- **ENVIRONMENTAL MANAGEMENT SYSTEM ASSESSMENTS**



4.6 MANAGEMENT REVIEW

- **TOP MANAGEMENT SHALL:**
 - **ENSURE THE EMS STABILITY, ADEQUACY, AND EFFECTIVENESS**
 - **ADDRESS NEED FOR CHANGES AS REQUIRED**
- **ASSESS PERFORMANCE OF THE SYSTEM**
 - **ENVIRONMENTAL PERFORMANCE**
 - **MANAGERIAL PERFORMANCE**
 - **OPERATIONAL PERFORMANCE**
- **ESSENTIAL PART OF CONTINUAL IMPROVEMENT**



HOW WILL WE INTEGRATE EMS?



ARMY EMS STRATEGY

- ✓ **ADOPT ISO 14001 WITH MISSION FOCUS**
- ✓ **FY04-06 FUNDING REQUIREMENTS IDENTIFIED**
- **CENTRAL INVESTMENT IN GUIDANCE, TOOLS, AND TRAINING**
 - **INITIATE WHEN FUNDS AVAILABLE - BUT CAN MOVE OUT**
 - **IMPLEMENTATION REQUIRED BY DECEMBER 05**
 - **EMS IN PLACE BY EO 13148 DEADLINES**
 - **FULL CONFORMANCE WITH ISO 14001 NLT FY09**



WHAT'S THE NEXT STEP?



ARMY EMS IMPLEMENTATION METRICS

- **EMS POLICY** **NLT 30 SEPTEMBER 03**
- **SELF-ASSESSMENT** **NLT 30 MARCH 04**
- **IMPLEMENTATION PLAN** **NLT 30 SEPTEMBER 04**
- **PRIORITIZED LIST OF ASPECTS** **NLT 30 MARCH 05**
- **TRAINING** **NLT 30 MARCH 05**
- **REVIEW** **NLT 31 DECEMBER 05**



WHAT DOES THIS MEAN TO YOU?



ENVIRONMENTAL LAW SPECIALIST ROLES

- **SUPPORT EMSMR**
 - **ASSIST GAINING COMMITMENT OF COMMANDER**
 - **PROVIDE LEGAL INTERPRETATION AS REQUIRED**
- **SUPPORT EMS IMPLEMENTATION**
 - **REVIEW EMS DOCUMENTS FOR LEGAL SUFFICIENCY AND CORRECTNESS**
 - **SERVE ON EMS TEAM IF PRUDENT**
- **INTERFACE WITH EPA/STATE REGULATORY OFFICES**
- **BALANCE EMS AND COMPLIANCE**